

Title (en)  
MOLDED ARTICLE AND METHOD FOR PRODUCING THE SAME

Title (de)  
FORMKÖRPER UND VERFAHREN ZUR HERSTELLUNG DESSELBEN

Title (fr)  
ARTICLE MOULÉ ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2047983 A1 20090415 (EN)**

Application  
**EP 07790994 A 20070719**

Priority

- JP 2007064240 W 20070719
- JP 2006205963 A 20060728
- JP 2006206541 A 20060728
- JP 2006206542 A 20060728

Abstract (en)

Disclosed is a molded article composed of a fiber-reinforced composite material (I) containing a continuous reinforcing fiber and a thermosetting matrix resin, and a thermoplastic resin member (II) which is joined to and integrated with at least a part of the surface of the fiber-reinforced composite material (I) by using a thermoplastic resin (A). The joined surface between the thermoplastic resin (A) and the fiber-reinforced composite material (I) has projections and recesses in the cross-section in the thickness direction of the molded article, and the maximum impregnation depth h of the thermoplastic resin (A) in the fiber-reinforced composite material (I) is not less than 10  $\mu\text{m}$ . The thermoplastic resin (A) has a tensile strength at break of not less than 25 MPa and a tensile elongation at break of not less than 200%. The impact adhesive strength at the joined portion of the fiber-reinforced composite material (I) and the thermoplastic resin member (II) is not less than 3,000 J/m<sup>2</sup>.

IPC 8 full level  
**B32B 27/04** (2006.01); **B32B 5/00** (2006.01); **C08G 63/672** (2006.01); **C08J 5/04** (2006.01)

CPC (source: EP KR US)

**B29C 45/14786** (2013.01 - EP US); **B29C 65/02** (2013.01 - EP US); **B29C 66/1122** (2013.01 - EP US); **B29C 66/43** (2013.01 - EP US); **B29C 66/721** (2013.01 - EP US); **B29C 66/7212** (2013.01 - EP US); **B29C 66/72141** (2013.01 - EP US); **B29C 66/73115** (2013.01 - EP US); **B29C 66/73117** (2013.01 - EP US); **B29C 66/7392** (2013.01 - EP US); **B29C 66/7394** (2013.01 - EP US); **B29C 70/086** (2013.01 - EP US); **B29C 70/74** (2013.01 - EP US); **B29C 70/88** (2013.01 - EP US); **B32B 3/263** (2013.01 - EP US); **B32B 3/30** (2013.01 - EP US); **B32B 5/00** (2013.01 - KR); **B32B 5/12** (2013.01 - EP US); **B32B 5/145** (2013.01 - EP US); **B32B 5/26** (2013.01 - EP US); **B32B 27/04** (2013.01 - KR); **B32B 27/08** (2013.01 - EP US); **B32B 27/12** (2013.01 - EP US); **B32B 27/285** (2013.01 - EP US); **B32B 27/302** (2013.01 - EP US); **B32B 27/36** (2013.01 - EP US); **B32B 27/365** (2013.01 - EP US); **C08G 63/672** (2013.01 - KR); **C08J 5/04** (2013.01 - EP KR US); **B29C 65/06** (2013.01 - EP US); **B29C 65/08** (2013.01 - EP US); **B29C 65/16** (2013.01 - EP US); **B29C 65/8207** (2013.01 - EP US); **B29C 65/823** (2013.01 - EP US); **B29C 65/8238** (2013.01 - EP US); **B29C 66/303** (2013.01 - EP US); **B29C 66/30321** (2013.01 - EP US); **B29C 66/5346** (2013.01 - EP US); **B29C 66/71** (2013.01 - EP US); **B29C 66/712** (2013.01 - EP US); **B29C 66/7315** (2013.01 - EP US); **B29C 70/882** (2013.01 - EP US); **B29K 2021/003** (2013.01 - EP US); **B29K 2055/02** (2013.01 - EP US); **B29K 2063/00** (2013.01 - EP US); **B29K 2067/00** (2013.01 - EP US); **B29K 2067/006** (2013.01 - EP US); **B29K 2067/043** (2013.01 - EP US); **B29K 2069/00** (2013.01 - EP US); **B29K 2101/10** (2013.01 - EP US); **B29K 2101/12** (2013.01 - EP US); **B29K 2105/06** (2013.01 - EP US); **B29K 2105/08** (2013.01 - EP US); **B29K 2307/00** (2013.01 - EP US); **B29K 2995/0089** (2013.01 - EP US); **B29L 2031/3431** (2013.01 - EP US); **B29L 2031/3437** (2013.01 - EP US); **B29L 2031/3456** (2013.01 - EP US); **B32B 2260/023** (2013.01 - EP US); **B32B 2260/046** (2013.01 - EP US); **B32B 2262/106** (2013.01 - EP US); **B32B 2274/00** (2013.01 - EP US); **B32B 2307/212** (2013.01 - EP US); **B32B 2307/54** (2013.01 - EP US); **B32B 2307/546** (2013.01 - EP US); **B32B 2307/558** (2013.01 - EP US); **B32B 2419/00** (2013.01 - EP US); **B32B 2457/00** (2013.01 - EP US); **B32B 2509/00** (2013.01 - EP US); **B32B 2535/00** (2013.01 - EP US); **B32B 2605/00** (2013.01 - EP US); **B32B 2605/08** (2013.01 - EP US); **B32B 2605/18** (2013.01 - EP US); **C08J 2367/02** (2013.01 - EP US); **Y10T 428/249933** (2015.04 - EP US)

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WO2012118603A1; US9694520B2; EP3974141A4; EP2806418A4; CN102767471A; EP2463083A3; EP2444221A1; ES2383668A1; US10398042B2; US8857128B2; US8618415B2; US9782944B2; US10864686B2; US11518138B2; WO2011064436A1; US9925728B2; US10407955B2; US11262804B2

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